

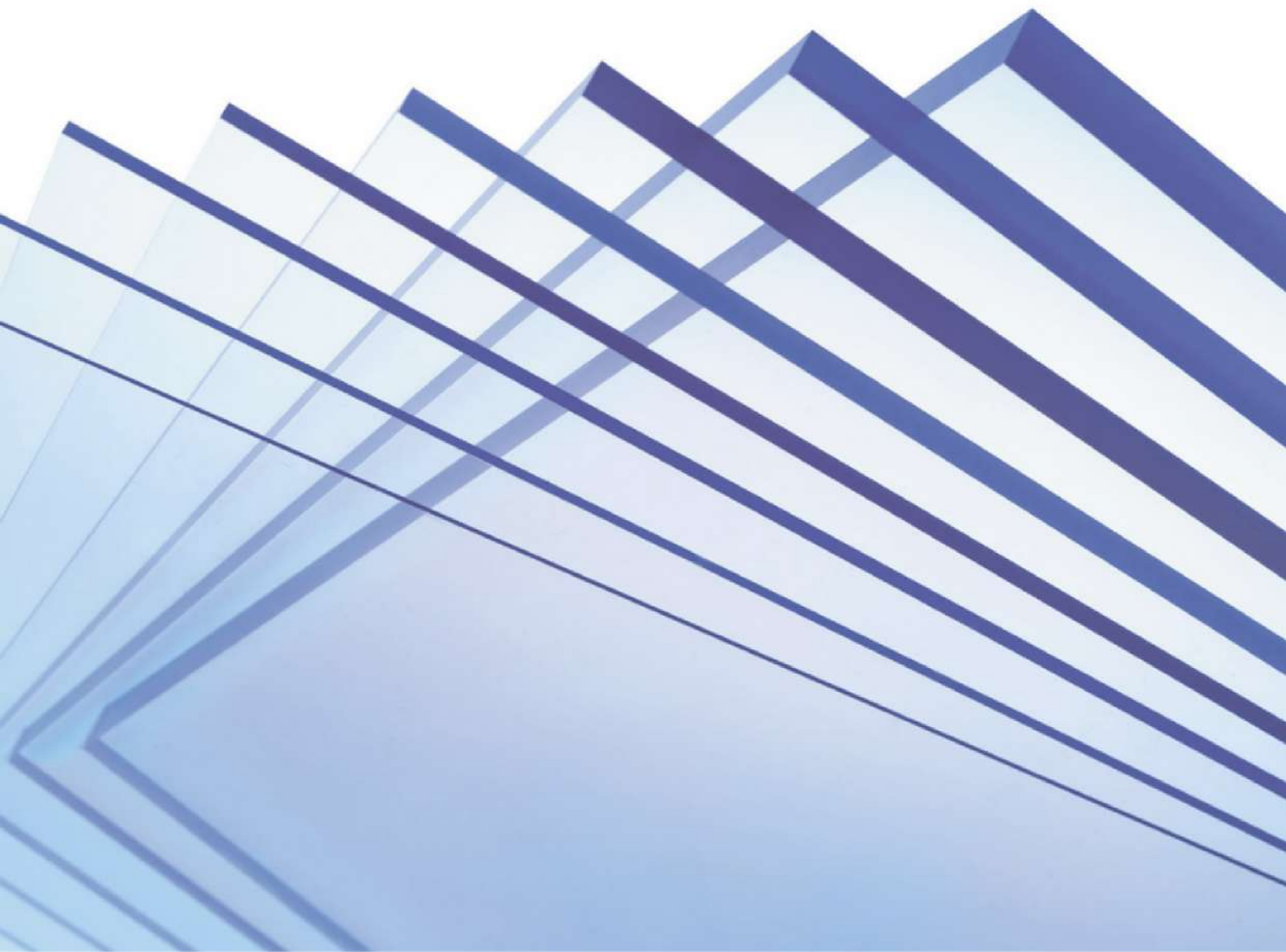


# SOLID POLYCARBONATE SHEET



## ABOUT PRODUCT

Solid polycarbonate sheet is a transparent, resistible and high toughness material despite its lightweight, that is covered with double-sided UV-protection and doesn't have internal voids. Qualities of Solid PC allow it to be implemented as safety glazing and protective screening. Solid PC is used everywhere from engineering and medicine to furniture and office interiors. High impact resistance makes solid PC the best option for outside structures that are influenced by weather conditions.







## TOP BENEFITS

Solid polycarbonate is resistant to impact loads, is well suited to various types of processing and provides a reliable and attractive appearance of the structure.

- ✓ High impact resistance
- ✓ Transparency
- ✓ Lightweight
- ✓ Acoustical insulation
- ✓ UV Protection
- ✓ Waterproof
- ✓ Fire resistant
- ✓ Durability





# APPLICATIONS

Solid polycarbonate combines a wide range of unique properties that make this material universal and popular in various applications.



- ✓ Translucent facades and roofs
- ✓ Advertising platforms
- ✓ Machine guards and visors
- ✓ Roof domes
- ✓ Noise reduction barriers
- ✓ Anti-vandalism structures
- ✓ Security glazing
- ✓ Bus Shelters







# PRODUCTION



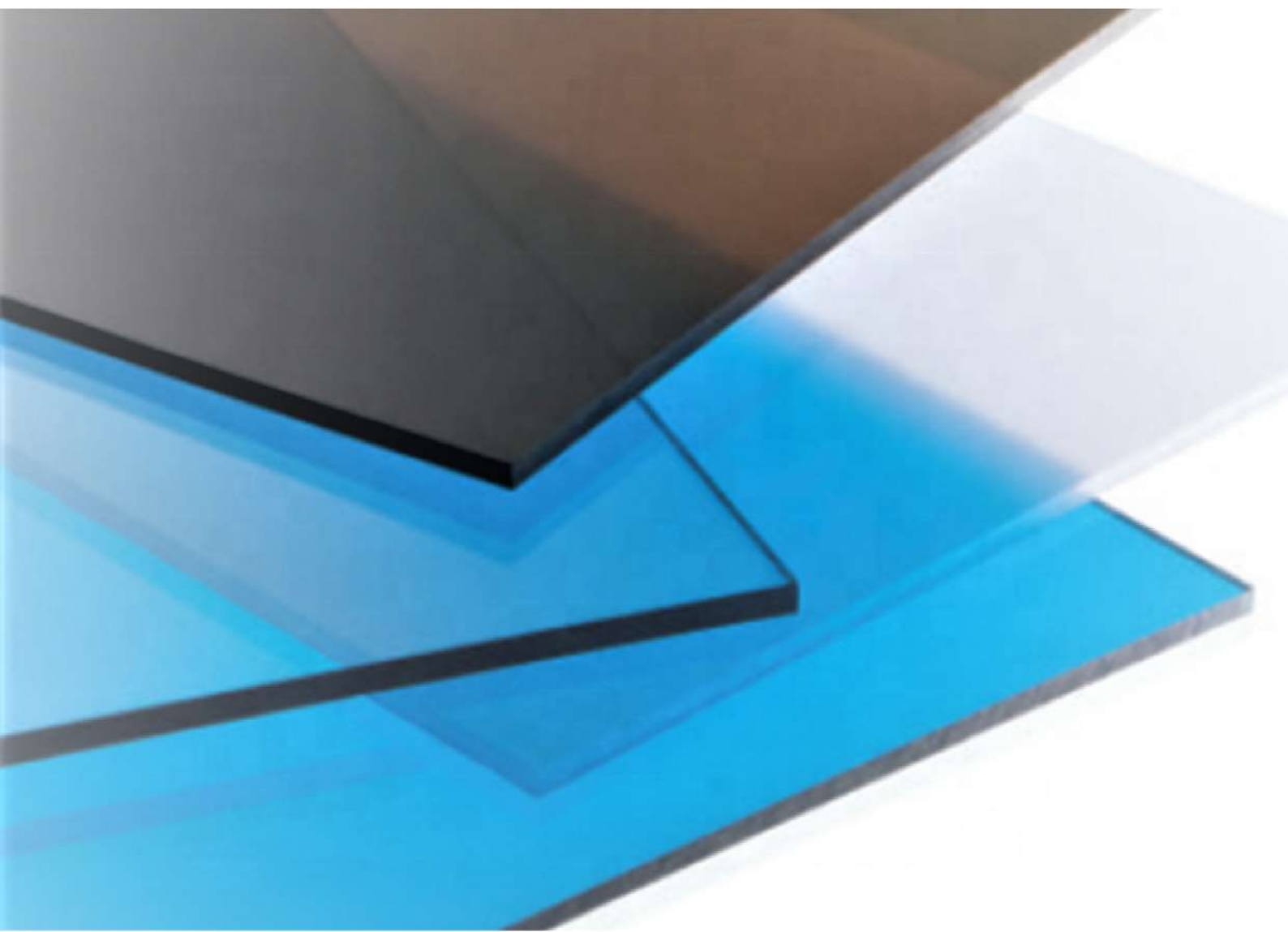
Ultraplast EU new extrusion equipment combined with modern and advanced European developments, allows to produce high-quality and widely used solid polycarbonate sheet.





## PRODUCT RANGE

OPTION	DESCRIPTION
Thicknesses:	0.5 / 0.6 / 1.5 / 1 / 2 / 3 / 4 / 5 / 6 / 8 / 10 / 12 mm
Sizes (Standard):	1250 x 2050 / 2050 x 3050 / 2050 x 6110mm
Colors:	Transparent / Bronze / Anthracite / Opal







# PROPERTIES

PROPERTIES		VALUE
Physical Properties		
	Density	1200 kg/m <sup>3</sup>
	Water absorption in Water Equilibrium, 23°C	0.35%
Mechanical Properties		
	Tensile strength	60 MPa
	Modulus of elasticity	2250 MPa
	Elongation at tear	110 %
	Charpy impact strength 23 °C, 3 mm, notched	80P kJ/m <sup>2</sup>
Thermal		
	Coefficient of linear thermal expansion 0-50°C	65 x 10 <sup>-6</sup> K <sup>-1</sup>
	Heat conductivity (l)	0,21 W/mK
Optical characteristics		
	Refractive index	1,457

LIGHT TRANSMISSION									
Thicknesses:		2mm	3mm	4mm	5mm	6mm	8mm	10mm	12mm
Colors:	Transparent	92 %	90 %	90 %	89 %	88 %	87 %	87 %	85%
	Bronze	40 %	40 %	40 %	40 %	40 %	40 %	40 %	40 %
	Opal	30 %	30 %	30 %	30 %	30 %	30 %	30 %	30 %
	Anthracite	45%	45%	45%	45%	45%	45%	45%	45%

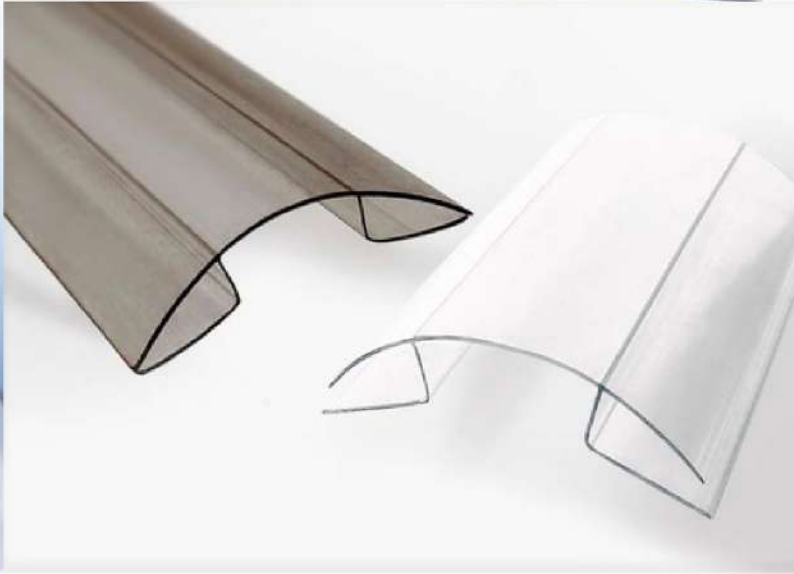
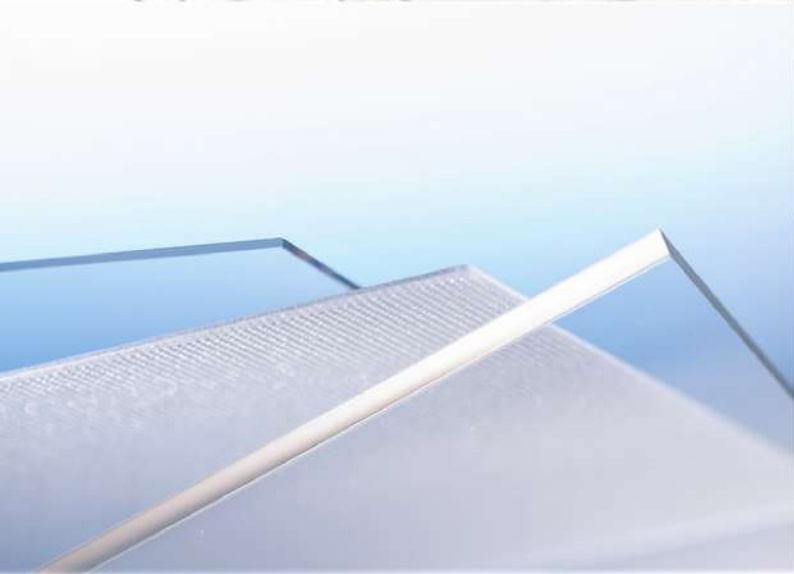
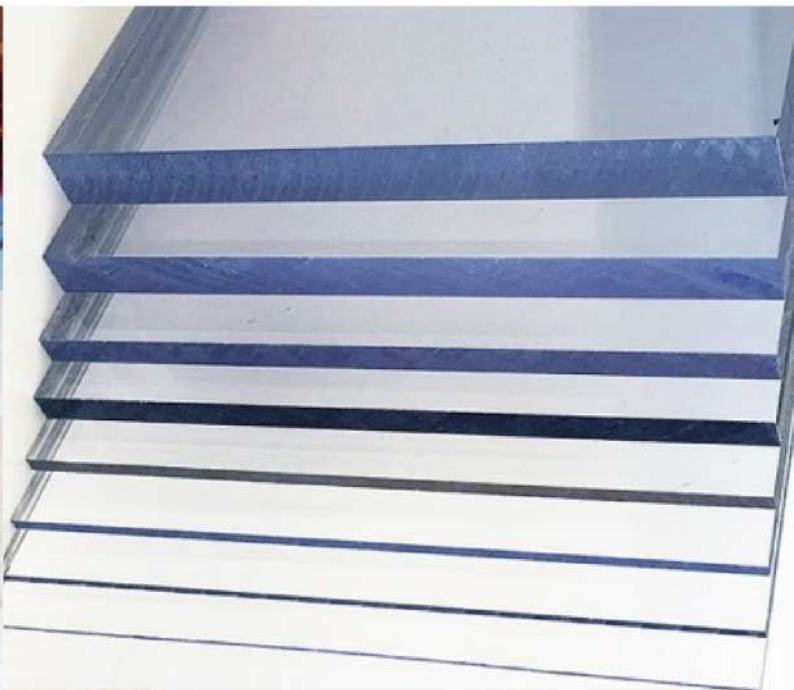
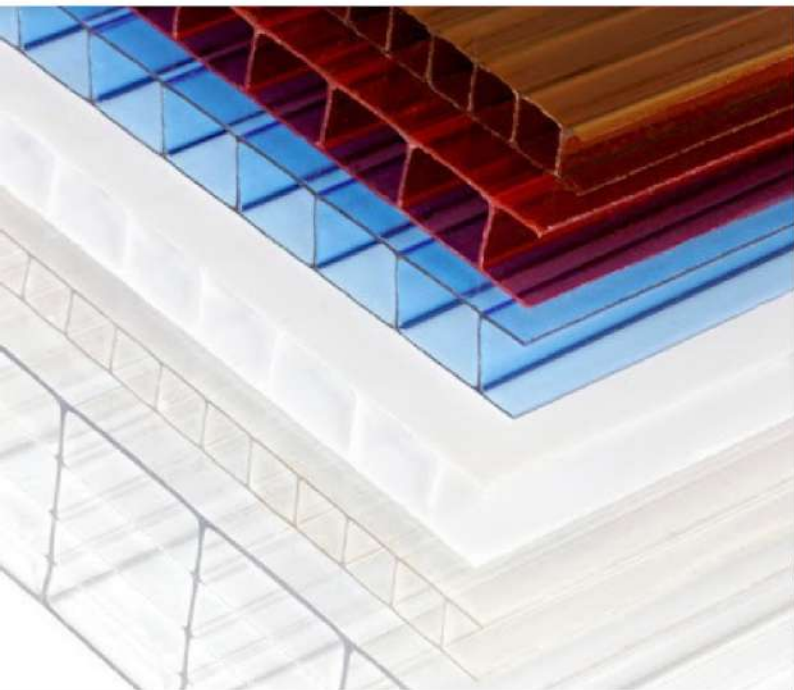
COLD CURVING												
Thicknesses (mm):	0.5	0.6	1	1.5	2	3	4	5	6	8	10	12
Min Radius (mm):	250	250	250	300	300	450	600	750	900	1200	1500	1800

FIRE RATING according EN 13501-1		
	B s1 d0	1-4 mm
	B s2 d0	5-6 mm



## OTHER PRODUCTS

Ultraplast EU also supplies multiwall polycarbonate sheets, acrylic (PMMA), PETG, GPPS, modular systems, polycarbonate profiles and accessories that can be used in various fields applications







## CONTACTS



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